

## SEQUENCE LISTING

<110> van den Boom, Dirk  
 Böcker, Sebastian

<120> FRAGMENTATION-BASED METHODS AND SYSTEMS  
 FOR SEQUENCE VARIATION DETECTION AND DISCOVERY

<130> 24736-2073

<140> Not yet assigned

<141> 2003-11-26

<150> US 60/429,895

<151> 2002-11-27

<160> 85

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Renin cleavage site

<400> 1

Pro Phe His Leu Leu Val Tyr

1

5

<210> 2

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Factor Xa cleavage site

<221> VARIANT

<222> 5

<223> Xaa = Any Amino Acid Except Pro or Arg

<400> 2

Ile Glu Gly Arg Xaa

1 5

<210> 3

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Factor Xa cleavage site

<221> VARIANT

<222> 5

<223> Xaa = Any Amino Acid Except Pro or Arg

<400> 3

Ile Asp Gly Arg Xaa

1 5

<210> 4

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Factor Xa cleavage site

<221> VARIANT

<222> 5

<223> Xaa = Any Amino Acid Except Pro or Arg

<400> 4

Ala Glu Gly Arg Xaa

1 5

<210> 5  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Collagenase cleavage site

<221> VARIANT  
 <222> 2, 5  
 <223> Xaa = Any Amino Acid

<400> 5  
 Pro Xaa Gly Pro Xaa  
 1 5

<210> 6  
 <211> 49  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Forward primer for base-specific cleavage

<400> 6  
 cagtaatacg actcactata gggagaaggc tccccagcaa gacggactt 49

<210> 7  
 <211> 28  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Reverse primer for base-specific cleavage

<400> 7  
 aggaagagag cgcctcggca aagtacac 28

<210> 8  
 <211> 340  
 <212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon for base-specific cleavage

<400> 8

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gggagaaggc tccccagcaa gacggacttc ttcaaaaaca tcatgaactt catagacatt 60
gtggccatca ttccttattt catcacgctg ggcaccgaga tagctgagca ggaaggaaac 120
cagaagggcg agcaggccac ctccctggcc atcctcaggg tcatccgctt ggtaagggtt 180
tttagaatct tcaagctctc ccgccactct aagggcctcc agatcctggg ccagaccctc 240
aaagctagta tgagagagct agggctgctc atctttttcc tcttcacggg ggatcatcctg 300
ttttctagtg cagtgtactt tgccgaggcg ctctcttctc                               340

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<210> 9

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer for partial cleavage

<221> modified\_base

<222> 1

<223> Biotinylated

<400> 9

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cccagtcacg acgttgtaaa acg                                     23

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<210> 10

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer for partial cleavage

<400> 10

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agcggataac aatttcacac agg                                     23

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<210> 11

<211> 117

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon for partial cleavage

<400> 11

cccagtcacg acgttgtaaa acgtccaggg aggactcacc atgggcattt gattgcagag 60  
cagctccgag tccatccaga gcttcctgca gtcacctgtg tgaaattggt atccgct 117

<210> 12

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Reference sequence

<221> misc\_feature

<222> 11

<223> n = C or A

<221> misc\_feature

<222> 1, 2, 3, 8, 9, 10, 12, 13, 14, 19, 20, 21

<223> n = A,T,C or G

<400> 12

nnnactgnnn nnnntgacnn n 21

<210> 13

<211> 583

<212> DNA

<213> Artificial Sequence

<220>

<223> CETP Amplicon

<400> 13

cttcagtgtc cacaccgacc ctatgagtgg ggcgggtcaaa ctgtcccat tttacacaca 60  
gggaaactta gtgaatggca aggctggggt tgagcccagc tctattgccc ccaaagataa 120  
ggctccattc cctgctccat ttcccaggca tagggacttg tagggggctg gaaccccagg 180  
atcaactctg ggctcagagg gcccagcaa taagtgactg ttgattactc ctgatcccaa 240  
agctgacttc aggcaagctc cttggaggtc gcagcccctt cttgctatgc ccagtggcaa 300

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tgatgttcat aatcccactc ctcagtgagc ggttccacta agaacccatg atctcctacc 360
tcaaattggac ctcatgcttt ctgagtaagc ctccctcagc tttctggtca cctcactccc 420
ccccccact gcaatgactt cttcaggcct tccctgccat cctcaaattct ccagctgccc 480
cctcctgtct accttccact tccctctcca cacacaacct gcttaccaga gagctgagca 540
gagccaccaa cagaacttcc cccccacgtc gctgctccca gtc 583

```

<210> 14

<211> 483

<212> DNA

<213> *Mycobacterium abscessus*

<300>

<308> EMBL Accession No. AJ536038

<400> 14

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acgggtgagt aacacgtggg tgatctgccc tgcactctgg gataagcctg ggaaactggg 60
tctaataaccg gataggacca cacacttcat ggtgagtggg gcaaagcttt tgcggtgtgg 120
gatgagcccg cggcctatca gcttggtggg ggggtaatgg cccaccaagg cgacgacggg 180
tagccggcct gagaggggtga ccggccacac tgggactgag atacggccca gactcctacg 240
ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300
agggatgacg gccttcgggt tgtaaacctc tttcagtagg gacgaagcga aagtgcgggt 360
acctacagaa gaaggaccgg ccaactacgt gccagcagcc gcggtataac gtaggggtccg 420
agcgttgtcc ggaattactg ggcgtaaaga gctcgtagggt ggtttgcgcg gttgttcgtg 480
aaa 483

```

<210> 15

<211> 495

<212> DNA

<213> *Mycobacterium avium*

<300>

<308> EMBL Accession No. AJ536037

<400> 15

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acgggtgagt aacacgtggg caatctgccc tgcacttcgg gataagcctg ggaaactggg 60
tctaataaccg gataggacct caagacgcat gtcttctggg ggaaagcttt tgcggtgtgg 120
gatgggccccg cggcctatca gcttggtggg ggggtgacgg cctaccaagg cgacgacggg 180
tagccggcct gagaggggtgt ccggccacac tgggactgag atacggccca gactcctacg 240
ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300
ggggatgacg gccttcgggt tgtaaacctc tttcaccatc gacgaagggtc cgggttttct 360
cggattgacg gtaggtggag aagaagcacc ggccaactac gtgccagcag ccgcggtaat 420
acgtaggggtg cgagcgttgt ccggaattac tgggcgtaaa gagctcgtag gtggtttgtc 480

```

gcgttggttcg tgaaa

495

<210> 16

<211> 495

<212> DNA

<213> *Mycobacterium celatum*

<300>

<308> EMBL Accession No. AJ536040

<400> 16

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acgggtgagt aacacgtggg tgatctgccc tgcacttcgg gataagcttg ggaaactggg 60
tctaataaccg gataggacca tgggatgcat gtcttggtgg ggaaagcttt tgcggtgtgg 120
gatgggccccg cggcctatca gcttggttgg ggggtgatgg cctaccaagg cgacgacggg 180
tagccggcct gagaggggtg ccggccacac tgggactgag atacggccca gactcctacg 240
ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300
ggggatgacg gccttcgggt tgtaaacctc tttcaccatc gacgaagctg ccggttttcc 360
ggtggtgacg gtaggtggag aagaagcacc ggccaactac gtgccagcag ccgcggtaat 420
acgtaggggtg cgagcgttgt ccggaattac tgggcgtaaa gagctcgtag gtggtttgtc 480
gcgttggttcg tgaaa 495
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<210> 17

<211> 483

<212> DNA

<213> *Mycobacterium fortuitum*

<300>

<308> EMBL Accession No. AJ536039

<400> 17

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acgggtgagt aacacgtggg tgatctgccc tgcacttttg gataagcctg ggaaactggg 60
tctaataaccg aatatgacca cgcgcttcac ggtgtgtggg ggaaagcttt tgcggtgtgg 120
gatgggccccg cggcctatca gcttggttgg ggggtaatgg cctaccaagg cgacgacggg 180
tagccggcct gagaggggtga ccggccacac tgggactgag atacggccca gactcctacg 240
ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300
agggatgacg gccttcgggt tgtaaacctc tttcaatagg gacgaagcgc aagtgcagg 360
acctatagaa gaaggaccgg ccaactacgt gccagcagcc gcggtaatac gtaggggtccg 420
agcgttgtcc ggaattactg ggcgtaaaga gctcgtaggt ggtttgtcgc gttgttcgtg 480
aaa 483
```

<210> 18

<211> 495

<212> DNA

<213> *Mycobacterium gordonae*

<300>

<308> EMBL Accession No. AJ536042

<400> 18

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acgggtgagt aacacgtggg taatctgccc tgcacatcgg gataagcctg ggaaactggg 60
tctaataaccg aataggacca caggacacat gtcctgtggg ggaaagcttt tgcggtgtgg 120
gatgggcccg cggcctatca gcttggtggg ggggtgatgg cctaccaagg cgacgacggg 180
tagccggcct gagaggggtg ccggccacac tgggactgag atacggccca gactcctacg 240
ggaggcagca gtggggaata ttgcacaatg ggcgaaagcc tgatgcagcg acgccgcgtg 300
ggggatgacg gccttcgggt tgtaaacctc ttaccacatc gacgaagggtc cgggttttct 360
cgggctgacg gtaggtggag aagaagcacc ggccaactac gtgccagcag ccgcggtaat 420
acgtaggggtg cgagcgttgt ccggaattac tgggcgtaaa gagctcgtag gtggtttgtc 480
gcgttggttcg tgaaa                                     495
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<210> 19

<211> 495

<212> DNA

<213> *Mycobacterium intracellulare*

<300>

<308> EMBL Accession No. AJ536036

<400> 19

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acgggtgagt aacacgtggg caatctgccc tgcacttcgg gataagcctg ggaaactggg 60
tctaataaccg gataggacct ttaggcgcat gtcttttaggt ggaaagcttt tgcggtgtgg 120
gatgggcccg cggcctatca gcttggtggg ggggtgatgg cctaccaagg cgacgacggg 180
tagccggcct gagaggggtg ccggccacac tgggactgag atacggccca gactcctacg 240
ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300
ggggatgacg gccttcgggt tgtaaacctc ttaccacatc gacgaagggtc cgggttttct 360
cggattgacg gtaggtggag aagaagcacc ggccaactac gtgccagcag ccgcggtaat 420
acgtaggggtg cgagcgttgt ccggaattac tgggcgtaaa gagctcgtag gtggtttgtc 480
gcgttggttcg tgaaa                                     495
```

<210> 20

<211> 495

<212> DNA

<213> *Mycobacterium kansasii*

<300>



<308> EMBL Accession No. AJ536035

<400> 20

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acgggtgagt aacacgtggg caatctgccc tgcacaccgg gataagcctg ggaaactggg 60
tctaataaccg gataggacca cttggcgcat gccttgtggg ggaaagcttt tgcggtgtgg 120
gatgggccccg cggcctatca gcttgttggg ggggtgacgg cctaccaagg cgacgacggg 180
tagccggcct gagaggggtg ccggccacac tgggactgag atacggccca gactcctacg 240
ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300
ggggatgacg gccttcgggt tgtaaacctc tttcaccatc gacgaagggtc cgggttctct 360
cggattgacg gtaggtggag aagaagcacc ggccaactac gtgccagcag ccgcggtaat 420
acgtaggggtg cgagcgttgt ccggaattac tgggcgtaaa gagctcgtag gtggtttgtc 480
gcgttggttcg tgaaa                                     495
```

<210> 21

<211> 495

<212> DNA

<213> *Mycobacterium marinum*

<300>

<308> EMBL Accession No. AJ536032

<400> 21

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acgggtgagt aacacgtggg cgatctgccc tgcacttcgg gataagcctg ggaaactggg 60
tctaataaccg gataggacca cgggattcat gtcctgtggg ggaaagcttt tgcggtgtgg 120
gatgggccccg cggcctatca gcttgttggg ggggtaacgg cctaccaagg cgacgacggg 180
tagccggcct gagaggggtg ccggccacac tgggactgag atacggccca gactcctacg 240
ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300
ggggatgacg gccttcgggt tgtaaacctc tttcaccatc gacgaagggtt cgggttttct 360
cggattgacg gtaggtggag aagaagcacc ggccaactac gtgccagcag ccgcggtaat 420
acgtaggggtg cgagcgttgt ccggaattac tgggcgtaaa gagctcgtag gtggtttgtc 480
gcgttggttcg tgaaa                                     495
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<210> 22

<211> 492

<212> DNA

<213> *Mycobacterium scrofulaceum*

<300>

<308> EMBL Accession No. AJ536034

<400> 22

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acgggtgagt aacacgtggg caatctgccc tgcacttcgg gataagcctg ggaaactggg 60
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tctaataaccg gataggacca cttggcgcat gccttgtggt ggaaagcttt tgcggtgtgg 120
gatgggcccg cggcctatca gctagtgtgt ggggtgatgg cctaccaagg cgacgacggg 180
tagccggcct gagagggtgt ccggccacac tgggactgag atacggccca gactcctacg 240
ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300
ggggatgacg gccttcgggt tgtaaacctc tttcaccatc gacgaaggct cactttgtgg 360
gttgacggta ggtggagaag aagcaccggc caactacgtg ccagcagccg cggtaatagc 420
taggggtgca gcgttgtccg gaattactgg gcgtaaagag ctcgtagggt gtttgtcgcg 480
ttgttcgtga aa 492

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<210> 23

<211> 485

<212> DNA

<213> *Mycobacterium smegmatis*

<300>

<308> EMBL Accession No. AJ536041

<400> 23

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acgggtgagt aacacgtggg tgatctgccc tgcactttgg gataagcctg ggaaactggg 60
tctaataaccg aatacaccct gctggtcgca tggcctggta ggggaaagct tttgcggtgt 120
gggatgggcc cgcggcctat cagcttggtg gtggggtgat ggcctacca ggcgacgacg 180
ggtagccggc ctgagagggg gaccggccac actgggactg agatacggcc cagactccta 240
cgggaggcag cagtggggaa tattgcacaa tgggcgcaag cctgatgcag cgacgccgcg 300
tgagggatga cggccttcgg gttgtaaacc tctttcagca cagacgaagc gcaagtgcg 360
gtatgtgcag aagaaggacc ggccaactac gtgccagcag ccgcggtaat acgtagggtc 420
cgagcgttgt ccggaattac tgggcgtaaa gagctcgtag gtggtttgtc gcgttgttcg 480
tgaaa 485

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<210> 24

<211> 497

<212> DNA

<213> *Mycobacterium tuberculosis*

<300>

<308> EMBL Accession No. AJ536031

<400> 24

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acgggtgagt aacacgtggg tgatctgccc tgcacttcgg gataagcctg ggaaactggg 60
tctaataaccg gataggacca cgggatgcat gtcttgtggt ggaaagcgct ttagcggtgt 120
gggatgagcc cgcggcctat cagcttggtg gtggggtgac ggcctacca ggcgacgacg 180
ggtagccggc ctgagagggg gtccggccac actgggactg agatacggcc cagactccta 240
cgggaggcag cagtggggaa tattgcacaa tgggcgcaag cctgatgcag cgacgccgcg 300

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tgggggatga cggccttcgg gttgtaaacc tctttcacca tcgacgaagg tccgggttct 360  
 ctcgattga cggtaggtgg agaagaagca cgggccaact acgtgccagc agccgcggta 420  
 atacgtaggg tgcgagcggt gtccggaatt actgggcgta aagagctcgt aggtgggtttg 480  
 tcgcggtgtt cgtgaaa 497

<210> 25

<211> 499

<212> DNA

<213> *Mycobacterium xenopi*

<300>

<308> EMBL Accession No. AJ536033

<400> 25

acgggtgagt aacacgtggg tgacctgccc tgcacttcgg gataagcctg ggaaactggg 60  
 tctaataccg gataggacca ttctgcgcat gtgggtggtt ggaaagtgtt tggtagcggg 120  
 gtgggatggg cccgcggcct atcagcttgt tgggtgggtg atggcctacc aaggcgacga 180  
 cgggtagccg gcctgagagg gtgtccggcc aactggggac tgagatacgg ccagactcc 240  
 tacgggaggg agcagtgggg aatattgcac aatgggcgca agcctgatgc agcgacgccg 300  
 cgtgggggat gacggccttc gggttgtaaa cccctttcag cctcgacgaa gctgcgggtt 360  
 ttctcgtggt gacggtaggg gcagaagaag caccggccaa ctacgtgccg gcagccgcgg 420  
 taatacgtag ggtgcaagcg ttgtccggaa ttactgggcg taaagagctc gtaggcggct 480  
 tgtcgcgttg ttcgtggaa 499

<210> 26

<211> 492

<212> DNA

<213> *Mycobacterium paraffinicum*

<400> 26

acgggtgagt aacacgtggg caatctgccc tgcacttcgg gataagcctg ggaaactggg 60  
 tctaataccg gataggacca cttggcgcac gccttgtggt ggaaagcttt tgcggtgtgg 120  
 gatgggcccg cggcctatca gcttgttggg ggggtgatgg cctaccaagg cgacgacggg 180  
 tagccggcct gagaggggtg cgggccacac tgggactgag atacggccca gactcctacg 240  
 ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300  
 ggggatgacg gccttcgggt tgtaaacctc tttcaccatc gacgaaggct cacttcgtga 360  
 gttgacggta ggtggagaag aagcaccggc caactacgtg ccagcagccg cggtaatac 420  
 tagggtgcga gcgttggtccg gaattactgg gcgtaaagag ctctaggtg gtttgcgcg 480  
 ttgttcgtga aa 492

<210> 27

<211> 483

<212> DNA

<213> *Mycobacterium interjectum*

<400> 27

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acgggtgagt aacacgtggg taatctgccc tgcacttcgg gataagcctg ggaaactggg 60
tctaataaccg gataggacct cgaggcgcat gccttggtgg ggaaagcttt tgcggtgtgg 120
gatgggccccg cggcctatca gctagtgtgg ggggtgacgg cctaccaagg cgacgacggg 180
tagccggcct gagaggggtg ccggccacac tgggactgag atacggccca gactcctacg 240
ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300
ggggatgacg gccttcgggt tgtaaacctc tttcagcagg gacgaagcgc aagtgcgggt 360
acctgcagaa gaagcaccgg ccaactacgt gccagcagcc gcggtataac gtaggggtgc 420
agcgttggtcc ggaattactg ggcgtaaaga gctcgtaggg ggtttgctgc gttgttcgtg 480
aaa 483
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<210> 28

<211> 484

<212> DNA

<213> *Mycobacterium aurum*

<400> 28

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acgggtgagt aacacgtggg tgatctgccc tgcactttgg gataagcctg ggaaactggg 60
tctaataaccg aataggacta cgcgatgcat gtcgtgtggg ggaaagcttt tgcggtgtgg 120
gatgggccccg cggcctatca gcttggttgg gaggttacgg ctcaccaagg cgacgacggg 180
tagccggcct gagaggggtg ccggccacac tgggactgag atacggccca gactcctacg 240
ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300
agggatgacg gccttcgggt tgtaaacctc tttcgccagg gacgaagcgc aagtgcgggt 360
acctggagaa gaaggaccgg ccaactacgt gccagcagcc gcggtataata ctaggggtgc 420
gagcgttggtc cggaattact gggcgtaaag agctcgtagg tggtttgctc gttgttcgtg 480
gaaa 484
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<210> 29

<211> 1542

<212> DNA

<213> *Escherichia coli*

<300>

<308> GenBank Accession No. AE000460

<400> 29

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aaattgaaga gtttgatcat ggctcagatt gaacgctggc ggcaggccta acacatgcaa 60
gtcgaacggg aacaggaaga agcttgcttc ttgtctgacg agtggcggac ggggtgagtaa 120
tgtctgggaa actgcctgat ggagggggat aactactgga aacggtagct aataccgcat 180
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aacgtcgcaa gaccaaagag ggggaccttc gggcctcttg ccatcggatg tgcccagatg 240  
 ggattagcta gtaggtgggg taacgggtca cctagggcag gatccctagc tgggtctgaga 300  
 ggatgaccag ccacactgga actgagacac ggtccagact cctacgggag gcagcagtgg 360  
 ggaatattgc acaatgggcg caagcctgat gcagccatgc cgcgtgtatg aagaaggcct 420  
 tcgggttgta aagtactttc agcggggagg aaggaggtaa agttaatacc tttgctcatt 480  
 gacgttacct gcagaagaag caccggctaa ctccgtgcca gcagccgcgg taatacggag 540  
 ggtgcaagcg ttaatcggaa ttactgggcg taaagcgcac gcaggcgggt tgttaagtca 600  
 gatgtgaaat ccccgggctc aacctgggaa ctgcatctga tactggcaag cttgagtctc 660  
 gtagaggggg gtagaattcc aggtgtagcg gtgaaatgcg tagagatctg gaggaatacc 720  
 ggtggcgaag gcggccccct ggacgaagac tgacgctcag gtgcgaaagc gtggggagca 780  
 aacaggatta gataccctgg tagtccacgc cgtaaacgat gtcgacttgg aggttgtgcc 840  
 cttgaggcgt ggcttccgga gctaacgcgt taagtgcacc gcctggggag tacggccgca 900  
 aggttaaaac tcaaatgaat tgacgggggc ccgcacaagc ggtggagcat gtggtttaat 960  
 tcgatgcaac gcgaagaacc ttacctggtc ttgacatcca cggaagtttt cagagatgag  
 1020  
 aatgtgcctt cgggaaccgt gagacagggt ctgcatggct gtcgtcagct cgtgttgtga  
 1080  
 aatgttgggt taagtccgc aacgagcgca acccttatcc tttgttgcca gcggtccggc  
 1140  
 cgggaactca aaggagactg ccagtgataa actggaggaa ggtggggatg acgtcaagtc  
 1200  
 atcatggccc ttacgaccag ggctacacac gtgctacaat ggcgcataca aagagaagcg  
 1260  
 acctcgcgag agcaagcgga cctcataaag tgcgtcgtag tccggattgg agtctgcaac  
 1320  
 tcgactccat gaagtccgaa tcgctagtaa tcgtggatca gaatgccacg gtgaatacgt  
 1380  
 tccccggcct tgtacacacc gcccgtcaca ccatgggagt gggttgcaaa agaagtaggt  
 1440  
 agcttaacct tcgggagggc gcttaccact ttgtgattca tgactgggggt gaagtcgtaa  
 1500  
 caaggtaacc gtaggggaac ctgcgggttg atcacctcct ta  
 1542

<210> 30

<211> 340

<212> DNA

<213> Bordetella avium

<400> 30

agagtttgat cctggctcag attgaacgct ggcgggatgc tttacacatg caagtcgaac 60  
 ggcagcacgg acttcggtct ggtggcgagt ggcgaacggg tgagtaatgt atcggaaacgt 120  
 gcctagtagc gggggataac tacgcgaaag cgtagctaata accgcatacg ccctacgggg 180  
 gaaagcgggg gaccttcggg cctcgacta ttagagcggc cgatatcgga ttagctagtt 240  
 ggtggggtaa cggctcacca aggcgacgat ccgtagctgg tttgagagga cgaccagcca 300

cactgggact gagacacggc ccagactcct acgggaggca

340

<210> 31

<211> 339

<212> DNA

<213> *Bordetella trematum*

<400> 31

```
agagtttgat cctggctcag attgaacgct ggcgggatgc ttacacatg caagtcggac 60
ggcagcacgg acttcggtct ggtggcgagt ggcgaacggg tgagtaatgt atcggaacgt 120
gcccagtagc gggggataac tacgcgaaag cgtggctaata accgcatacg ccctacgggg 180
aaagcggggg accttcgggc ctgcactat tggagcggcc gatatcggat tagctagtgtg 240
gtggggtaac ggctcaccaa ggcgacgac cgtagctggg ttgagaggac gaccagccac 300
actgggactg agacacggcc cagactccta cgggaggca 339
```

<210> 32

<211> 1496

<212> DNA

<213> *Bordetella petrii*

<220>

<221> misc\_feature

<222> 821

<223> n = A,T,C or G

<300>

<308> GenBank Accession No. AJ249861

<400> 32

```
cgctagcggg atgctttaca catgcaagtc gaacggcagc gcggacttcg gtctggcggc 60
gagtggcgaa cgggtgagta atgtatcgga acgtgccag tagcggggga taactacgcg 120
aaagcttagc taataccgca tacgccctac gggggaaagc gggggacctt cgggcctcgc 180
actattggag cggccgatat cggattagct agttggtggg gtaaaggcct accaaggcga 240
cgatccgtag ctggtttgag aggacgacca gccacactgg gactgagaca cggcccagac 300
tcctacggga ggcagcagtg gggaattttg gacaatgggg gcaaccctga tccagccatc 360
ccgcgtgtgc gatgaaggcc ttcgggttgt aaagcacttt tggcaggaaa gaaacggctc 420
tggctaatac ctggggcaac tgacgggtacc tgcagaataa gcaccggcta actacgtgcc 480
agcagccgcg gtaatacgta ggggtgcaagc gttaatcgga attactgggc gtaaagcgtg 540
cgcaggcggg tcggaaagaa agatgtgaaa tcccagggt taaccttggg actgcatttt 600
taactaccgg gctagagtgt gtcagaggga ggtggaattc cgcgtgtagc agtgaaatgc 660
gtagatatgc ggaggaacac cgatggcgaa ggcagcctcc tgggataaca ctgacgctca 720
tgcacgaaag cgtggggagc aaacaggatt agatacctg gtagtccacg ccctaaacga 780
```

tgtcatctag ctgttgggga cttcggtcct tggtagcgca nctaacgcgt gaagttgacc 840  
 gcctggggag tacggtcgca agattaaaac tcaaaggaat tgacggggac ccgcacaagc 900  
 ggtggatgat gtggattaat tcgatgcaac gcgaaaaacc ttacctacc ttgacatgtc 960  
 tggaatgccg aagagatttg gcagtgtcgc caagagaacc ggaacacagg tgctgcatgg  
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 ctgtcgtcag ctctgtgtcgt gagatgttgg gttaagtccc gcaacgagcg caacccttgt  
 1080  
 cattagttgc tacgaaaggg cactctaata agactgccgg tgacaaaccg gaggaagggtg  
 1140  
 gggatgacgt caagtcctca tggcccttat gggtagggct tcacacgtca tacaatggtc  
 1200  
 gggacagagg gctgcccaacc cgcaaggggg agccaatccc agaaacccga tcgtagtccg  
 1260  
 gatcgcagtc tgcaactcga ctgctgaag tcggaatcgc tagtaatcgc ggatcagcat  
 1320  
 gtcgcggtga atacgttccc gggctcttga cacaccgccc gtcacacat gggagtgggt  
 1380  
 ttaccagaa gtagttagcc taaccgcaag gggggcgatt accacggtag gattcatgac  
 1440  
 tggggtgaag tcgtaacaag gtagccgtat cggaagggtgc gggtggatca cctcct  
 1496

<210> 33

<211> 363

<212> DNA

<213> Bordetella strain SHA-1

<400> 33

agagtttgat cctggctcag gacgaacgct ggcggcgtgc ctaacacatg caagtcgaac 60  
 gcgagtgtct tttttcgcaa gagagcagac acttgagtgg cgaacgggtg agtaacacgt 120  
 gagcgactca ccttccggtg ggggataact gtccgaaagg gcggctaata cctcgtatgc 180  
 tccctgaccg ccgggtcagt gaggaaagtg ggcttcgtaa gaagctcatg ccagaagaga 240  
 ggctcgcgcc ccatcagcta gttggcgagg taacggctca ccaaggcaat gacgggtagc 300  
 tgggtctgaga ggatgggtcag ccactctggg actgagacac ggcccagact cctacgggag 360  
 gca 363

<210> 34

<211> 363

<212> DNA

<213> Bordetella strain SHA-110

<400> 34

agagtttgat cctggctcag gacgaacgct ggcggcgtgc ctaacacatg caagtcgaac 60  
 gcgagtgtct tttttcgtaa gaaagggtgac acttgagtgg cgaacgggtg agtaacacgt 120  
 gagtaactca ccttccggtg ggggataact gtccgaaagg gtggctaata ccccatatgc 180

tccctgaccg cccgggtcagt gagaaaagtg ggcttcgtaa gaagtcaca ccagaagaga 240  
 ggctcgcgcc ccatcagctg gttggcgagg taatggctca ccaaggcaat gacgggtagc 300  
 tggctctgaga ggatggtcag ccacactggg actgagacac ggcccagact cctacgggag 360  
 gca 363

<210> 35

<211> 343

<212> DNA

<213> Bordetella strain B1-10

<400> 35

agagtttgat catggctcag gatgaacgct ggcggcgtgc ttaatacatg caagtcgaac 60  
 ggagggaggt agtaatactt tccttagtgg cgaacgggtg agaaacgcgt tggtagacctg 120  
 ccccgaagag cgggacaaca gaccgaaagg tttgctaata ccgcatgagc tcttgctggc 180  
 tagagtggca agaggaaagg ccgaaaggcg ctttgggagg ggctgcgctc ccatcagcta 240  
 gttggcgggg taacagccca ccaaggcgat gacgggtagg ggacctgaga gggtagacccc 300  
 ccacaatgga actgaaacac ggtccataca cctacgggtg gca 343

<210> 36

<211> 342

<212> DNA

<213> Bordetella strain B1-12

<400> 36

agagtttgat catggctcag gatgaacgct ggcggcgtgc ctaatacatg caagtcgaac 60  
 gggagatgta gcgatatgtc tccagtggcg aacgggtgag taacgcgttg gtgacctgcc 120  
 ccgaagagcg ggataacaga ccgaaaggac tgctaatacc gcatgagctc tcggcagtta 180  
 gagggggccga gaggaaaagg cgaaaggcgc tttgggaggg gcctgcgtcc catcagctag 240  
 ttggcgaggt aagagctcac caaggcgatg acgggtaggg gacctgagag ggtgaccccc 300  
 cacaatggaa ctgaaacacg gtccatacac ctacgggtg ca 342

<210> 37

<211> 342

<212> DNA

<213> Bordetella strain B6-52

<400> 37

agagtttgat catggctcag attgaacgct ggcggcatgc tttacacatg caagtcgaac 60  
 ggcagcacgg gcttcggcct ggtggcgagt ggcgaacggg tgagtaatgc atcggaacgt 120  
 gccattttgt gggggataac gcggcgaaag tcgcgctaata accgcatacg ccctgagggg 180  
 gaaagcgggg gattcttcgg agcctcgcgc aattggagcg gccgatgtca gattagctag 240  
 ttggtagggt aaaggcctac caaggcgacg atctgtagcg ggtctgagag gatgatccgc 300



cacactggga ctgagacacg gccagactc ctacgggagg ca 342

<210> 38

<211> 342

<212> DNA

<213> Bordetella strain B6-60

<400> 38

agagtttgat catggctcag attgaacgct ggcggcatgc tttgcacatg caagtcgaac 60  
 ggcagcacgg gcttcggcct ggtggcgagt ggcgaacggg tgagtaatgc atcggaacgt 120  
 gcccatTTgt gggggataac gcggcgaaag tcgcgctaata accgcataacg ccctgagggg 180  
 gaaagcgggg gattcttcgg aacctcgcgc aattggagcg gccgatgtca gattagctag 240  
 ttggtagggt aaaggcctac caaggcgacg atctgtagcg ggtctgagag gatgatccgc 300  
 cacactggga ctgagacacg gccagactc ctacgggagg ca 342

<210> 39

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer TPU1

<400> 39

agagtttgat cmtggctcag 20

<210> 40

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer RTU8

<400> 40

aaggagggtga tccakccrca 20

<210> 41

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer Myko109-T7

<400> 41

gtaatacgcac tcactatagg gacgggtgag taacacgt

38

<210> 42

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer R259-SP6

<400> 42

atttaggtga cactatagaa tttcacgaac aacgcgacaa

40

<210> 43

<211> 418

<212> DNA

<213> Artificial Sequence

<220>

<223> IGF2/H19 Amplicon

<400> 43

accatgcctg ctgctccctg cctgccagcg ccctgcacat actttgcaca tggctggggg 60  
ccagctgctg gtccctgggg actcggatgg cacagagggc cccttcctgc caccatcacg 120  
gctcagacct cacgttcctg gagagtaggg gtgggggtgct gaggggcaga ggggaagtgcc 180  
gcaaaccccc tgggtgggcgc ggtgccagcc cccagggccg attcccatcc agttgaccga 240  
gcttggtgctg gtcaccgcgg tttccgcagg acagagtccc cacagccgct gggcaccgcc 300  
gtcccatctg cggccacttt cctgtctgaa gaccgcatgt tgccgggctg tgcttacggc 360  
tcgcgggcgc actctactga caagcgggtg gcggcctcac agactctccc aggcccgcc 418

<210> 44

<211> 269

<212> DNA

<213> Artificial Sequence

<220>

<223> K-Ras Amplicon

<400> 44

```
cgtccacaaa atgattctga attagctgta tcgtcaaggc actcttgctt acgccaccag 60
ctccaactac cacaagttta tattcagtca ttttcagcag gccttataat aaaaataatg 120
aaaatgtgac tatattagaa catgtcacac ataagggttaa tacactatca aatactccac 180
cagtaccttt taatacaaac tcacctttat atgaaaaatt atttcaaaat accttacaaa 240
attcaatcat gaaaattcca gttgactgc                                     269
```

<210> 45

<211> 428

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 1

<221> misc\_feature

<222> 123

<223> n = T or C

<400> 45

```
gggaacatct tgctgctctc agagccagaa aatgctgaca gcctcatgct ggtggacttc 60
gagtacagca gttataacta taggtgaggc tggaaagatg gcttcccata gatctgttcc 120
canagggctc ttgaaaacag gccagctgcc cagggcattt ggggactgaa tgtccacctt 180
attctcccag gggctttgac attgggaacc atttttgtga gtgggtttat gattatactc 240
acgaggaatg gcctttctac aaagcaaggc ccacagacta cccactcaa gaacagcagg 300
tatgtggggc agaggctggg gagcaggacc catcctgtga ggaaggaggg aggtggagtc 360
tggaaggaat ggccggaaag gatgttacct gggaaatact ccacagtctc cccaattcct 420
gactcttg                                     428
```

<210> 46

<211> 429

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 2

<221> misc\_feature

<222> 174, 179

<223> n = T or G

<221> misc\_feature

<222> 317

<223> n = C or T

<400> 46

```

cccactactc tgccttcctg ttcagtaact cttacttttg cctgaagtaa cagcatcttc 60
tactttctcca tctagagatt tttgtgtgtg tgccatcaag gttagcaaac tttatacgta 120
gcctaacact taaaaaatgc actcattatc ttaaacctaa taaattccag agtntattnt 180
ggttctcctc tgttgccctt cctaaaaaat gagctgaaga tgacagtatt tttctttaca 240
tgcttggtta tgacttttaa agttttatth aaataaatgt tgaagctcaa gtttaaagaa 300
gcggtgcaga ggcccanggt ctctggggtc cgggccacct gtccatattc cacatttgct 360
gactgtgctc cctgcactcc actcaagttg agagttcaaa tagtcttgaa ggggaatcag 420
cttcaggat                                     429

```

<210> 47

<211> 465

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 3

<221> misc\_feature

<222> 285, 286

<223> n = G or A

<400> 47

```

ggaagtgggt ttggagggtg taactcacta tttttagggt agaacacaaa gaacaattag 60
tgaatttaag taagaaaagt gaagttatca actaatgtgc tattaaaaat attattttta 120
gtaagaggca tcctaggagt tacagaatgt ctacattcta cagaaatgtc ttcctctcaa 180
gtcttcagag agcaaagggt acagctacct aaagtgtttc cacttcaagc acagattgta 240
tgctgaaga ctacatacct tgcattatca accagttcag caagnncacc aaacaagaat 300
tcgtgagtgg ttctgaaatg ataaatacta aaagtcagca aaagaattat tgaagttata 360
attcctaata aaaagccatg gttataaaat atttaagttt tttgaaaaaa atcttaaaac 420
caccatttgc attgttttta tactactcaa ggctttccag agctc                                     465

```

<210> 48

<211> 426

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 4

<221> misc\_feature

<222> 131

<223> n = A or G

<400> 48

```
tatgataggg aagatgcggc catcactggg atattttcaa atcccaagga catcagagtg 60
aagtgtcagt tgtcagatga ttttaaaagt tatgtcttca gagaaaaaaaa gattcatttt 120
ctcatttttaa nccaattaaa tattctgagt gagactaatc actcatttgc ctacgacctt 180
ttagaaaagt tgttttggtg aaatactgta cgtacgctta atctaaattt gcattgacta 240
tgttttagtg tatttataaa tggatgaactc agtttctgaa attaaacttc ttatttgcaa 300
ttttctagtg ctggcagaca ctggcttttt atttttagga taagaaaaca ggcatattct 360
ttgtggtcca ttatctagag ccataacttg ggcagcattt gaaatttcac ctaacccca 420
gacagg                                           426
```

<210> 49

<211> 533

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 5

<221> misc\_feature

<222> 47, 50, 51, 52

<223> n = A or G

<221> misc\_feature

<222> 111, 135, 185, 359

<223> n = T or C

<221> misc\_feature

<222> 198

<223> n = T or G

<221> misc\_feature

<222> 253

<223> n = C or A

<400> 49

```
tgcacagggt ttgatctctg agatgtttta tactctctgg cttgganaan nnacagtcct 60
gtagtatcaa gaccagacct tgtgtcccca gcccaaggct gccctgggcc nagggacagt 120
atttgagac ttcgntggca gttttgcgtt ggaatcacct ggtgcctccc tgtacgtcca 180
```

```

ccancctgt gccagance cttcgcaag caccatatgc tgtagatcc tcgagcagcc 240
ttgtgggaca gcnaccctgg ggctgggtatc accatztatg taagaaaaaa aaggaagtgc 300
tggcccaggg tcccacagcc agcaagttgg agctgcactg cccaagcagg tcctttagnc 360
agctctctgt tgtcccccaa gcccctcagc ccccaggca gctctaaggg ctcagctgct 420
gcaggattcc ttagagaagc tgaagggttt gggtcctcag ctctggccg gggcaagtct 480
ggccaagcag catggcagcg atgaagtcca catgatcgaa gggtaggatgc tta      533

```

<210> 50

<211> 422

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 6

<221> misc\_feature

<222> 131

<223> n = C or G

<400> 50

```

caaggcttga ctgaaggacc tcattccagag tcaactatcag agctcgtcc agcactctcc 60
ttcatggagc cccaggggtca gcagtggaga gggtcagagc acccccacaa ccccacagc 120
gagatgacct nggctcgtct tgccctctgcc accagagctg tgactgtggg caagatattt 180
tacagcagga ccagtttctt gtccgaaggc agggctatta acaggacctt actcaggata 240
cttggtgtgga taaaatcatg tgtgaagagc ttttagggcc ttgcttctca aagagggggc 300
ccaggccatc agcacacctg gagtgtgcag ggggaagctc tcagccccac cccagccctc 360
tttacaagac ccccgctgg cacctgtggc gtggcacctg tgtgcactcg tgttttcaaa 420
gc      422

```

<210> 51

<211> 411

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 7

<221> misc\_feature

<222> 228, 230, 235, 236, 240, 243, 245

<223> n = A or T

<400> 51

```

atccctctgt ctctccacca ggaactagaa ttttgtgtat cactgcgctt atttttttct 60
tttagtttac cacatgtgta tgtatctata agtaatataa cgatctgttt tgcttctcta 120
tattgtgcc a tatgtcgctt ttagcaactt gcttttagct gacgttctgt tttcaagatt 180
catccatggt gctgcataaa cctaacattc acttactggt gctggtgnan aacannccan 240
cangngagca cagacatttg ggttggttcc aagacatgta tcaatggcaa aaattaagat 300
gtctgacaaa accaagagtt ggagaggatg tggatggctt ggaattttat ctgctccttt 360
acacccactc tggaaaaact gtacaaacaa ttctgcaagg atttttccag a 411

```

<210> 52

<211> 445

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 8

<221> misc\_feature

<222> 84

<223> n = C or G

<221> misc\_feature

<222> 265, 269

<223> n = T or C

<400> 52

```

tagtgaaaag ggcacacagc tgtaactcca gacatctccc tattgcatgg atctgcactt 60
gactggcagc ctagacagaa ggantgctat ttgtcttttc tggctgacag ctgagcagga 120
ccagcgctgg ctgcaaccaa ggagcattgc ttcgcttgct atacttctgc ttccaaacag 180
ccctcttttg tttgtgctgt gaagttccca taccgtctgc catctcagca tctcctctgg 240
ctgaacctcc ttcacagttt gtacnctang tttaaattagc tgttcaattc ctccaggaga 300
aaggactgtg gctattagtt cttagaagcc ccaaagagcc cagtatgggc ctaggcttgc 360
actaggatcc catgaagcta gctggctggc tgggtgggtg gatcagaccg gcaaaagcac 420
tgtaggagct tgaaacccag cagac 445

```

<210> 53

<211> 425

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 9

<221> misc\_feature

<222> 136

<223> n = A or C

<221> misc\_feature

<222> 385

<223> n = G or A

<400> 53

```
cctctccttc tctgcgtgac cttgggctgg gagccaccca ggaaatgttc tcgagaaatg 60
aggacttcaa ttccgaggtg gggagtgtca tctcctctct catgcctcag tttcccaatt 120
tatagacaag gtgggnggag ctttcttgag gcccccttgg gctctgacat ttcatgaacc 180
ggtaacaccc ctcccactca gcatgcacct ggatgccccaa ggcgggtgtc tgggagaaaag 240
gtctgtctcc acagtgaaga ggccagggtg gcctccagcc tagggctggg gggcagggtc 300
ctcagtgcag agggctgagt gggctcttgt tcagacgggt ggtcaggag aggatgggtc 360
agagacagtg agcacagagg gagngttca ggtgccttga gtggcacctc atggaaagaa 420
gccct                                           425
```

<210> 54

<211> 424

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 10

<221> misc\_feature

<222> 76

<223> n = C or G

<400> 54

```
aacctcctac gggcctttta tgagctgtcg cagactcacc ggggtaatgg catcccccaa 60
agctgtggtg tgaccttggg caatccctgg ggctctcac tcccatgctg aggtgggtca 120
gacctacagc gcctgacctc aggtccctc tgggctgggc ctgggtccag gtgctgggat 180
ttgcatggg cctgcgggga acatctagat cagctggtct cttaagggcc gcaacgatga 240
acaggcccca cctgtctcc tcacactgcc actggcagta cacaaggccc ttgcttattt 300
atatttctga caacctgtaa ctctgggcag gccgactgca gctgacccca gctactgcag 360
aaaatgaagc ccagacaaag gagagggcc cactgctccc aagtgggtgga gctgttgttc 420
caat                                           424
```

<210> 55

<211> 393



<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 2.1

<221> misc\_feature

<222> 157

<223> n = T or A

<400> 55

```

agatgcccct gacactgact caaggctcag agaaggcggg cacctgccta aggccacccg 60
gtaggcccaa ggtgtatcaa gactccatcc caggacctct gggccctggg ctgcaggcct 120
ggggccctacc cactgattga ttggacctgt gcctccncca ggtgatggtc aagtggactt 180
tgaggagttt gtgacccttc tgggacccaa actctccacc tcagggatcc cagagaagtt 240
ccatggcacc gactttgata ctgtcttctg gaaggatatcc cctggctagt tgggaccag 300
ggctgtgcac actgtggagt tctgttctgg agccagtga tggctgggcc cacactgtaa 360
aggggggatg accacctcag gcttgtgtcc act 393

```

<210> 56

<211> 499

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 2.2

<221> misc\_feature

<222> 103

<223> n = T or G

<400> 56

```

gaacccatgt cctccacatc cacaagtctc caaagggttg gggattcctt gtgtgagctc 60
cagatcccaa tcctctggtg gttcatggtg ttgtcaatga cangtctctc cttgtcaccc 120
cagtatgaaa atgaggagac ttacagggtg cgaacattcc agataggtag aggggagaaa 180
ctggtgaagg ccctggttcc agcctttctg ggtagaacca tctcctccta tgccacctgt 240
ttggggccct cctgggactt tatcacctgt ccagacttca tggaggaact gtttaccagg 300
tgaatgtcca tcccctccaa ctcacagtgg tgactgtctc cgactagctg tgtcttgagg 360
atgtcaccca agccctctga gcctgtttgc tcctttgtaa agcagtgaga tgaacctcat 420
agggttctta tgggaactaa atggcctaag gcatggcaag cagggtccaa gtgcctggct 480
ctgtgaaaag gctgctgag 499

```

<210> 57  
 <211> 399  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Amplicon 2.3

<221> misc\_feature  
 <222> 31  
 <223> n = C or G

<400> 57  
 ccaggacagc tgaggacatt ccagaccctc ncatctcctt cctggagcct cacaggcccc 60  
 cagagcccct gaaagggcag aaattggtca gctcagcagc cactcacact ggatcttata 120  
 gaggttgctg gtttccttct tggacagcag ggtggagtgg gcatccttcc ggggatccac 180  
 tttgtgaaca aagaggggagc ggaaccagct gccttcattg tccttggaat agaaactgca 240  
 ggacagagga gttgaggggg acgcgcggag gttgggggag cccagcaat tccatccact 300  
 tggatgtcct gctcccctag accagtgacc cacatttctg ggaacagggc cacggagtcc 360  
 tgtggcagct ccagactgtg aaatgctatt ggagccagc 399

<210> 58  
 <211> 365  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Amplicon 2.4

<221> misc\_feature  
 <222> 211  
 <223> n = T or C

<400> 58  
 ggggtagcag agtagtcccc agaacagggc tgggctgcat cccacatcca gagaggtgtg 60  
 ctgagtggac actaacatac cttattgttt ttgagcttgt tcatgcagtc catgagggct 120  
 gggtagccac ctgagaatcg ccacaggtgc actgttgggg gtgagaggta taggtcagtg 180  
 agctgctggg acccccagca gatgacctcc ncaaggttg ctaagtgggtg gggacggggg 240  
 aggcgggggtg gcctgggttc ctgtagcagc aagactccct gagttccctc tgccttggtg 300  
 gaagaccatg ctgggggaggg gatgacccta gacacaagtc taggagacct ggatttgagc 360  
 tccag 365

<210> 59  
 <211> 390  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Amplicon 2.5

<221> misc\_feature  
 <222> 77  
 <223> n = A or G

<400> 59  
 aatgaaccaa gcagagcaca gagcacagga gcacgacgag gatgggtgcaa ggcacccgcc 60  
 aaatcctctg ggctccntga ctaaagctga gggaggaagt agccatcagg gtccctttgg 120  
 tgccgtcttg tctcggcact ccttgagct gatcactctc ttgctccctg ctaggcccc 180  
 tctccagaag gcccgatgcc cctgggtggg ggcgaggacg aggatgcaga ggaggcagta 240  
 gagcttctg aggcctcggc cccaaggcc gctctggagc ccaaggagtc caggagcccc 300  
 cagcaggtgg gaccacatg gaggcctgca gaacctgagc tgtgaactgg caaccctggc 360  
 tctggggccg agtcaccttg cacaaggagg 390

<210> 60  
 <211> 396  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Amplicon 2.6

<221> misc\_feature  
 <222> 131  
 <223> n = A or G

<221> misc\_feature  
 <222> 239  
 <223> n = G or C

<221> misc\_feature  
 <222> 254  
 <223> n = C or A

<221> misc\_feature

<222> 283

<223> n = A or C

<400> 60

```

cccatgacac tggcttacct tgtgccaggc agatggcagc cacacagtgt ccaccggatg 60
gttgatTTTTg aagcagagtt agcttgtcac ctgcctccct ttcccgggac aacagaagct 120
gacctctttg ntctcttgcg cagatgatga gtctccgggg ctctatgggt ttctgaatgt 180
catcgtccac tcagccactg gatttaagca gagttcaagt aagtactggg ttggggagna 240
gggttgcagc ggcngagcca gggctctcac ccaggaagga ctnatcgggc aggggtgtggg 300
gaaacagggg gggtgttcag atgaccacgg gacacctttg accctggccg ctgtggagtg 360
tttgtgctgg ttgatgcctt ctgggtgtgg aattgt 396

```

<210> 61

<211> 368

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 2.7

<221> misc\_feature

<222> 100

<223> n = A or G

<400> 61

```

cagagagcaa aggtcacagc tacctaaagt gtttccactt caagcacaga ttgtatgcct 60
gaagactaca taccttgcat tatcaaccag ttcagcaagn gcaccaaaca agaattcgtg 120
agtggttctg aaatgataaa tactaaaagt cagcaaaaaga attattgaag ttataattcc 180
taataaaaag ccatgggttat aaaatattta agttttttga aaaaaatctt aaaaccacca 240
tttgcattgt ttttatacta ctcaaggctt tccagagctc cccaactccc ctcaattggt 300
aatctttaac aagtcctgcc atctattcag aaatgattat tcttcctatt ttgagttggg 360
aaaccac 368

```

<210> 62

<211> 451

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 2.8

<221> misc\_feature

<222> 228

<223> n = A or G

<221> misc\_feature

<222> 341

<223> n = G or T

<400> 62

```

gatgtacacc actccctgcc tcccgccttta gaaatgaaga aaccatggct cagagggggtg 60
tggagggtca cacagcatca cagggcccga agtggaggag ctgggatatg gacacaggcc 120
cacctgcctt cagaccagac ccctgtgccc ccagccgccc caccacccac agaccccaga 180
gggaggacgt caggcgtcca ggctggcacc tttagcttgg gcaggccncc gcggatggca 240
tctgcaatgg caactgcacc cttggagcgc accaggcagt ccccaaaatt aatcacctcc 300
acctgccgca aggtcttcaa ggtctgtgag ggggaagcaa nggtccagag tgaggggtgca 360
gaccacaccc cagccctcag caagccccgg gggccccaca cggtcacatc ccaagccagc 420
caccacacac tgcctcctc tgcaagtcac c                                     451

```

<210> 63

<211> 790

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 2.9

<221> misc\_feature

<222> 300

<223> n = C or G

<221> misc\_feature

<222> 696, 741

<223> n = C or T

<221> misc\_feature

<222> 771

<223> n = A or T

<400> 63

```

ttagggaaga agggccaaag cactccttgt agcactcacc cctacccttc caagccaccc 60
cagccgggtgt aggtacctgt cttcagcagc atcgctctgg actcagcttc cgaggacctg 120
accagatctg gtctgcgtgt atcagctgta tgtgttgggc tctggaagct aagaaacgtc 180
tgaaaagcac tggggtcacg gctgcctggc tagctcggcc gccctcaacc ttaggcgtgg 240

```

```

atcgtacact cgggtcccaa gttgcccgcc ccatccccag ccatcacttc ccggagcttn 300
agttcttcct tcagaaatac gaaacaacgt gtcttggatg tcagacctca caccctctgc 360
agtgtctggga gtcccagagg cctacggggc gccttcggcc ccgcccgggc tcagaaaaag 420
gcagccactg gcttaaggtc accaagaaag agcggagggg cggggctgcg gccaggctcc 480
ggacttccag ccgggtccgg gttcccgcgc tgggctcccc aaaaccgcag agccccctcc 540
caccgcactt atcctaccga agcgttcaga cctgccgccg cttctgactc gaatccggta 600
acctgataag tccgaagcgt tccagtgagg gcggggcctc acgaaggcaa cccttcgcgc 660
aacctatcag aatccccctt agcaacgctg tgccnngccc atatgggtcc ggctccccag 720
cctccctaag cccttcccca ntgggctccc gccctgcgtg ctagcgaggc nggcattggc 780
agaacggact                                     790

```

<210> 64

<211> 496

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 2.10

<221> misc\_feature

<222> 378

<223> n = T or G

<400> 64

```

cttgtgaccc tccaaggaaa ggaaccagca ctcatcaagg tcccactggg caccaggtgc 60
tgggcttggc gtgctgtgtg ttatcccatt tcagcttccc agcaaccctc caagttagct 120
tcagcccca ccccgcccc attttacaga aggaaaacac aaggctcagg aagtcagggtg 180
ccacccaagg aaggtcctac ggctcaggga ggagcccagg tccaggctct gggacctggg 240
tggtgggggc gtgcagagcc tgagctggga cccagtgtg aggttcagcg gggcccagac 300
tgcagacca ctgccccagg ctgaccgtac tgggggccc gctaacctct gcctccttcc 360
cttctacctt cccagggnaa tgatgcggaa gagcctaagg gggtcaccag cgaaggtagt 420
agtccccgcc cctgcccgcc ctctccttcc cccagggctc tggcctcagg gcctaccctc 480
accctctccc ctctct                                     496

```

<210> 65

<211> 395

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 2.11

<221> misc\_feature

<222> 137

<223> n = A or G

<400> 65

```
tagaaaggcc attcctcgtg agtataatca taaaccact cacaaaaatg gttcccaatg 60
tcaaagcccc tgggagaata aggtggacat tcagtcccca aatgccctgg gcagctggcc 120
tgttttcaag agccctntgg gaacagatct atgggaagcc atctttccag cctcacctat 180
agttataact gctgtactcg aagtccacca gcatgaggct gtcagcattt tctggctctg 240
agagcagcaa gatgttcctt gggggaatgg ggtgaggttc tgctcactcc agagccctct 300
ggctcttcca tcttgggtta ggagactcag atgccttctc ctaccttcct ggatgtcatt 360
gtggcagaag acgactggcg atggggtaga ctcta 395
```

<210> 66

<211> 353

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 2.12

<221> misc\_feature

<222> 249

<223> n = A or G

<400> 66

```
cattccttcc agactccacc tccctccttc ctcacaggat gggtcctgct cccagcctc 60
tggccccacat acctgctgtt cttgagtggg gtagtctgtg ggccttgctt tgtagaaagg 120
ccattcctcg tgagtataat cataaaccba ctcacaaaaa tgggtcccaa tgtcaaagcc 180
cctgggagaa taaggtggac attcagtccc caaatgccct gggcagctgg cctgttttca 240
agagccctnt gggaacagat ctatgggaag ccatctttcc agcctcacct atagttataa 300
ctgctgtact cgaagtccac cagcatgagg ctgtcagcat tttctggctc tga 353
```

<210> 67

<211> 598

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 2.13

<221> misc\_feature

<222> 80, 206, 295, 373, 400, 479

<223> n = A or G

<221> misc\_feature

<222> 315, 317, 318

<223> n = A or T

<400> 67

```
ccatctgagc tatttcccca cctctctcta cggtttaagg gcccagcagg agggagggag 60
caatcagact caagcctggn tgcaaatccc ggctctacca ctgctttcct gtctgatctg 120
aacgagttac ctaacctctc cgagcttata tacaaaagct gaatgatcct tccctcatag 180
agctattgcg agaataagga gatggnggga ggtcacacca tccccaaactt accaagggat 240
cttcctctga cagagactga gcaagatcca gctgggtctga gctgtgtgga tctcncctcc 300
agctgtgcac ctatntnnta accagacacg tcctccagcc cccaagatat acccaggaat 360
tcgaaaggta aantgaaagt cacaacttcc cagcagctcn caatcaagca cagcaaacac 420
gctgctcccc agcacctcct gcagtccagc cccacctctc ttgctgctgc gcttagagna 480
gcagcctgag accagacctc caggtctctt tcatccaacc cacctgcctg gcacacctcg 540
ggttgggggt ctgctatagt cttcaggaag aaagacctgc cactgacata ctgtggga 598
```

<210> 68

<211> 382

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 2.14

<221> misc\_feature

<222> 48

<223> n = T or C

<221> misc\_feature

<222> 154

<223> n = A or G

<400> 68

```
tgagagggac atcctcaagc ccagcagagg gggctgcctg gaggaggngt gcctgccaga 60
gaaaactagc ccggggagat ctgggtggca tcaccggggt gcccgaagga ggtaacccca 120
tggagggttac ctgggcaatt cagccacacg cacnaatctc ttccaggctt catcgctagt 180
cagcaggatt ttcagatgca ctgggctaac tttcttctgg aagtattcaa tgacttcttc 240
agtgaagcgt ttcttttcta gttggaaaca aaaaggataa gattggaaga aagtttgcta 300
ccacataaat ggcattgagt ataagggtgt tcggtgttaa tcctcctgaa ccagctgtca 360
```



catgggggtat ttttgatgga gg

382

<210> 69

<211> 398

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 2.15

<221> misc\_feature

<222> 205

<223> n = C or G

<221> misc\_feature

<222> 277

<223> n = T or A

<221> misc\_feature

<222> 304

<223> n = T or C

<400> 69

```
cccttctcgc agctgattac ggtcacgtcg atcccgtctt tccagtctcc acgagacgga 60
gcccgggaaa agagtcgacc ccatgctctg ccgccccgc accccacccc tcgggaatcc 120
ccacgtctt tccaatcac cttcttcttc tcaaggcctc ccatcgctcc acgttgagga 180
gccgactagg gccgcgcgta caggagctc cacttcctcc cgcacgtgcc ctgccaaagga 240
ccccgaggac cctccccacc ccacgtgtgc tgtttgngcg ggctgccc aa tgagatgcct 300
gtanaagtcc agggaaagat ggggatttcc tcctcaagat ttaaaactat agtctgaaaa 360
aatcactga gaacactctt tccagatctt tcccgtc 398
```

<210> 70

<211> 398

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 2.16

<221> misc\_feature

<222> 117

<223> n = C or G

&lt;400&gt; 70

```

ccactcttgt tcttgggcat cagctggttg cctggctgtg ttagtgaccc agcccacaac 60
agccccctac tctaccctgg ctacatgcag tgcccatctc tggggtcact gcagagnaga 120
cctggctaata gccaccctct ctcccggtg cctttcagga agaccatgct caatgacctc 180
ctgcggttcg atgtgaaaga ctgctcctgg tgcaggtggg tggccccgtg ctccagggcc 240
ctgcctttcc tcctagaaca cagtggcaca gtgctgggtc ccagttgcta gcagagtctc 300
tctcatcatg ggaagctaga aagaagcttc caggaggaga taaccacggc ctcagggatg 360
ccacatccag agccgccctg tcaggctgag gagatcaa 398

```

&lt;210&gt; 71

&lt;211&gt; 380

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Amplicon 2.17

&lt;221&gt; misc\_feature

&lt;222&gt; 37

&lt;223&gt; n = A or C

&lt;221&gt; misc\_feature

&lt;222&gt; 329

&lt;223&gt; n = C or T

&lt;221&gt; misc\_feature

&lt;222&gt; 350

&lt;223&gt; n = A or G

&lt;400&gt; 71

```

tgaatcctca tctggggaag tttcaagaat aaaagcngtc ccatctcagc agtctcgagt 60
gtggtgaaat gtgagcgggc cctgtgaggc cggggctgag ctgtcctctc ccctgcagg 120
tggcccagag tggcgagatc ccccatctt gctgcaactt ccccggtggt gtgtgccggg 180
acaagatggt tgtattctct gggcaaagcg gagccaaaat aaccaacaac ctcttccagt 240
ttgaattcaa ggacaagacg tgagtactct ggccagtggg gtggagggag gacggtcagt 300
tcctcgaat ccttctgaat atgaagaang cctcttgac ctggtggccn tggttaaccat 360
ccttgtgagc tctgcaaaca 380

```

&lt;210&gt; 72

&lt;211&gt; 698

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

<220>

<223> Amplicon 2.18

<221> misc\_feature

<222> 653

<223> n = C or T

<400> 72

```
cagaagcatg gaattgctga caagcacaga gcttggcgtg gggttggagg ttgcatcagt 60
ctcctgcggt tgctgtagcg aagggctgca aactgggtgg tttggagcag cagacaggta 120
ctcacagctt tgagggccaa gagtcccatc taagggtgtca gcaagggcag tgccctcaga 180
gcctcagggg tgggtccttc ctgcctcttc caatttcttg tggtgcccag agttccttga 240
agtcccttgg ctgcgagctg tatcactctg ccttgggtctt tacctgccgc cttccctcgg 300
catctgtgtc ttcacacggc cctcttgtaa ggacaccagt cattgcgtta gggcccaccc 360
taatcccgtg tgacctctc taaacttatt acctctgcaa agaccctatt tccaaaaaag 420
gtcacattcc cagtgtggc agttaggacc tcagtgtatc tttgcgggga cacagttcaa 480
cctgctaccc atccatcatt ttgtattctg agatcttttt ttctgttttt agctatgtga 540
aaggcatcta ctcttttggc ttgatggaaa ccaacttcta cgaccaggca gaaaaactcg 600
ccaaagaggt aagtgggtcc ttcttaaggt gcctgacccc tcaggagta gcngttggct 660
ggaccagggc atatgagggg caccattcgt gtgtgacc 698
```

<210> 73

<211> 698

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 2.19

<221> misc\_feature

<222> 257

<223> n = A or G

<400> 73

```
ggggggttgc ttttgcatag agaccatgac caggtctggg acagaggaaa gtcaaataaa 60
tcacacatta gagttagaag cagaggctca ggctgagccc aggtttatta tccaaaatca 120
aaatgaaatg cagtgattaa aggacacaag gcctcagtggt gcatcattct cattgtggct 180
ttcaggcggc tgtggaagac aggggtggga tgggtggcttc gggaggtagag gtgctctggg 240
acttgggcaa gtcttangca agccattcct gctttctggg cctggctccc atggggcatt 300
agaaatgaaa atgctttgtg gactgctgag gacggtgcaa gggtgagggt tcccagctca 360
ccgatcatg gccagcacc agggcatcag cttctgcttt atgggtgggt ctgcaggtag 420
gaagtccttg gccttcagaa tgacctcatg ggctcctgg aagaggtcct cccccactgc 480
```

tgcctccacg cgctgccgcc atgtggccag cttgggtcgg ccttcgaaga cttggcagcc 540  
 agcaccacg ggctgtgggg aaaagggtag agactgggga tggatggttg tgagggcagg 600  
 gatgggcagc atctgatttg gggaccacag atctccagga ggtgtttgca cacacactta 660  
 agcacagtgc catagcccgg tgtggcagca taagcagg 698

<210> 74

<211> 395

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 2.20

<221> misc\_feature

<222> 98

<223> n = C or G

<221> misc\_feature

<222> 114

<223> n = G or A

<400> 74

ctcctctgtc cctcctcaga cccctcctcc tcctcccaca cgcccactgt aaagggctcc 60  
 tgcgtcagga gctgccaggc cgagggccag ggcaccnga ggacagctgc tccngcagca 120  
 ctcacccgat gcatgtcttc atacttgaga aaaagcacgt tcgagtccat gcggtgctcc 180  
 cagaactcct gcacgtgctc aaaccaggag ccgtagccca ctgcggagac aggggacagg 240  
 gtgagccaca cggctgggca ggagaagcgc acacatgggg ccatccccac cccacagggc 300  
 tgccctcctg ccaccagca gccgtgatga ggacatcgtg atccctgcgg acaagtctgg 360  
 caaaggcccc cgaggcactc acgtcttgag ccatac 395

<210> 75

<211> 383

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 2.21

<221> misc\_feature

<222> 21

<223> n = C or T

<221> misc\_feature

<222> 61

<223> n = A or G

<221> misc\_feature

<222> 83, 84, 85, 86

<223> n = C or deletion

<400> 75

```
ctggactgga ggccaaagtc ntgcggggaa cgtgcgggaa gagcagagcg tgcaggcagc 60
ngagactaac aagaagccct ggnnnnagag ggcaggaaca ggtggacgaa caaccagatg 120
agagaacgta ccaggcatgc aagctagacc caggaatcaa cgggctgagg cttagcgtcc 180
cctacggcgt ccaccagcct gaccgcgggc ctgctgggcc cggggggagg ggccttcctg 240
ctggggtcga gctgcagcgc acgggtgggc attagaggca caatagagca ggtaggttag 300
agctcctggg gggacagggc aggggcaggg ccgaggctgg cgatgtaagg gttggcctgc 360
caggacagca caggtagcac caa                                     383
```

<210> 76

<211> 385

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 2.22

<400> 76

```
tgaatagtgc gttgcaggtc catgcacttg tcagtttggt catttcctgg aggcttctag 60
ccctgggtgt ccatggccct tgcagatact tgctggtcag gaatgagcct tctgaggcaa 120
gactgctgga ttgtccaggc agggctattg atgccagccc cttaacttaa ttctgcccag 180
acaagaagat gtttgaggtg aagcggcggg agcagctggt ggcactgaag aacctggcac 240
agctgaacga catccaccag cagtacaaga tccttgatgt catgctcaag gggctcttta 300
aggtgtgtgc aggcaggggg cagctcatgg caggtccagt ctttgatcta ggcactgatg 360
ggtaaacagg agttccctaa cgggt                                     385
```

<210> 77

<211> 357

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 2.23

<400> 77

```
acaggagttc cctaacgggt tgggtgttcag ggacagggga actgcgcaca cgtaagactt 60
gaagtgggggt ttaaataaat ggggatggga gcagtctgtg atgggcactg cgaagccact 120
cagccctggc gggattccct caggtgctgg aggactcccg gacagtgtc accgctgtg 180
atgtgctccc agatgggccc ttccccagg acgagaagct gaaggatggg atgggtctgcc 240
ctgccccgcc ctgtcctccg caccaccga tcttctctag ctgtccttc tctcctgttc 300
ttgtcactct ttttttctcc ccggaagtgc cctcttgtgg caccttctaa gtgggtcc 357
```

<210> 78

<211> 355

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 2.24

<221> misc\_feature

<222> 183, 256, 284, 327

<223> n = C or T

<400> 78

```
gcagagatca gagcatcgaa taatgggtgc taaaatatct tggaaaagga aacagtccta 60
tccagatgaa atgtgttcat accgtagaca tgacagagac cagctcttgt tcagtgtccc 120
ctacctgtg gctgttctc cggctcctcg aacagatcag ccgagcttat ggaggaactt 180
gngacagcc tctctaggcg ggccctggtc tcatactaga gaagacaagg aaaaggaaat 240
gttaggctcc aaagantgtg ggcagttttg caaaaagaat cacngaagag ctgtcatttg 300
aaagtgtttg acccccaggc tctttcnttc caacagttac tgaatgccac tgcca 355
```

<210> 79

<211> 399

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 2.25

<221> misc\_feature

<222> 279

<223> n = A or G

<400> 79

```
ccttagaagc ctggaactct tgttaaataag gtagctatatt gtatgaacag gaaactgagt 60
```

```

cagcttatta ggaaatgata agattctgca gaagaacata ttgtatagtt ttccgtagaa 120
agaggagagg cttaattcct ttttgttttg aacttagatc aaattactca ttaaacaaga 180
tgatgacctt gaagttcccg cctatgaaga catcttcagg gatgaagagg aggatgaaga 240
gcattcagga aatgacagtg atgggtcaga gccttctgng aagcgcacac ggtagaaga 300
ggtagagttt ggtctctcac agctatccca gaggaacttg cactcccaga ggtcggagggt 360
catcctgaag cctgccaggc caaggtgtac tgagggcag 399

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<210> 80

<211> 379

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 2.26

<221> misc\_feature

<222> 44

<223> n = C or T

<400> 80

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gcaaggagcg ggtgtgaatg ctccacggcc ccttagctac ctgtgacacc ttgtgcccac 180
agggttccgta gtaagatgga agctgctggc ttcactatct cgggagccag tcaccccatc 240
tgccctgtga tgctgggtga tgcccggctg gcctctcgca tggcggatga catgctgaag 300
agaggtaagg gtgctgagac aagggaactg gtggtgggtc ctgagagaag agaaagggaa 360
accctagac tgtgaccca 379

```

<210> 81

<211> 398

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 2.27

<221> misc\_feature

<222> 346

<223> n = C or G

<400> 81

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ttcgctcata ctttctccga tgttctgcaa ttttctgtgc ctagaaaaaa gagccatagc 240
aaaataagct tgctccaaaa gctgaataac atcaacacaa atattctttg tagagagatg 300
tttaattcaa catgcagttc agaaaaatga cagatttgtc ttgtanaaaa agacctaaca 360
caagctaagc ctttaagaaa accaacctca actgcatg 398

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<210> 82

<211> 371

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 2.28

<221> misc\_feature

<222> 291

<223> n = A or G

<400> 82

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gagggcgggc cattcccga gagagcttca gtacctgtcc tgaagctgga cacggtggcc 180
ccagttcaag gatttcacgt gattttgaac agcttctgcc atcttctcc tgtgaagata 240
cgaaacaaaa tgtaaaatcc acaacacagg tgtagctgc agggcctcac natggactat 300
tagattcaaa tggtagcttc atagaaatat caaaaaacaa gagtgctttt aaagggtggca 360
aaacgtgaca t 371

```

<210> 83

<211> 395

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 2.29

<221> misc\_feature

<222> 260

<223> n = C or G

<400> 83

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caagaacctc ctacgggcct tttatgagct gtcgcagact caccggggta atggcatccc 240
ccaaagctgt ggtgtgacn tgggcaatcc ctggggcctc tactcccat gctgaggtgg 300
gtcagacca cagcgctga cctcaggctc cctctgggct gggcctggtc ccagggtgctg 360
ggatttgca tgggcctgcg gggaacatct agatc 395

```

<210> 84

<211> 328

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplicon 2.30

<221> misc\_feature

<222> 257

<223> n = C or T

<400> 84

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gggtggtttc cgcaccctg ctcacctggg gtcatectca aagagatact ggatcccctg 120
gccatggtgc acatcccagt ccacgacgag gatcctgggt acagacagcg ctggtggcaa 180
aggggcaggg cctcccacct ccaggagccc ggccagggat gggaagggtc tggctgggtt 240
ctctgcctc ctgcgcngcc cttgtctgtg tggcctgggc ccacccccct gcagccagcc 300
tggcacacac ctgtgtagcc cgtgtttc 328

```

<210> 85

<211> 483

<212> DNA

<213> Mycobacterium chelonae

<400> 85

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tctaataccg gataggacca cacacttcat ggtgagtggg gcaaagcttt tgcggtgtgg 120
gatgagcccg cggcctatca gcttgttggg ggggtaatgg cccaccaagg cgacgacggg 180
tagccggcct gagaggggtga ccggccacac tgggactgag atacggccca gactcctacg 240
ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300
agggatgacg gccttcgggt tgtaaacctc tttcagtagg gacgaagcga aagtgacggt 360
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agcgttgtcc ggaattactg ggcgtaaaga gctcgtaggg ggtttgctgc gttgttcgtg 480
aaa 483

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